

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

Title: Detection and Typing of Human
Papillomavirus Using PNA Probes
Inventor(s): Cohenford et al.
Serial No. Not Yet Assigned
Docket No. CYM-035 Atty: Joseph A. Capra
Express Mail No. EL653444078US



Figure 1

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

Title: Detection and Typing of Human
Papillomavirus Using PNA Probes
Inventor(s): Cohenford et al.
Serial No. Not Yet Assigned
Docket No. CYM-035 Atty: Jose A. Capraro
Express Mail No. EL653444078US

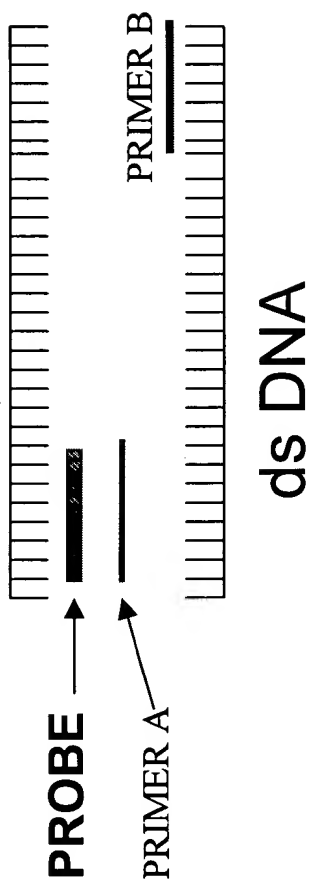


Figure 2 Competitive inhibition of DNA
amplification by a blocking probe

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

Title: Detection and Typing of Human Papillomavirus Using PNA Probes
 Inventor(s): Cohenford et al.
 Serial No. Not Yet Assigned
 Docket No. CYM-035 Atty: Joseph A. Capra
 Express Mail No. EL653444078US

Lane 1: DNA Ladder

Lane 2: HPV DNA Strain 11,
in absence of PNA

Lane 3: HPV DNA Strain 16,
in absence of PNA

Lane 4: HPV DNA Strain 18,
in absence of PNA

Lane 5: HPV DNA Strain 11
in presence of PNA I

Lane 6: HPV DNA Strain 16
in presence of PNA I

Lane 7: HPV DNA Strain 18
in presence of PNA I

Lane 8: HPV DNA Strain 11
in presence of PNA II

Lane 9: HPV DNA Strain 16
in presence of PNA II

Lane 10: HPV DNA Strain
18 in presence of PNA II

1000 b.p.

600 b.p.

200 b.p.

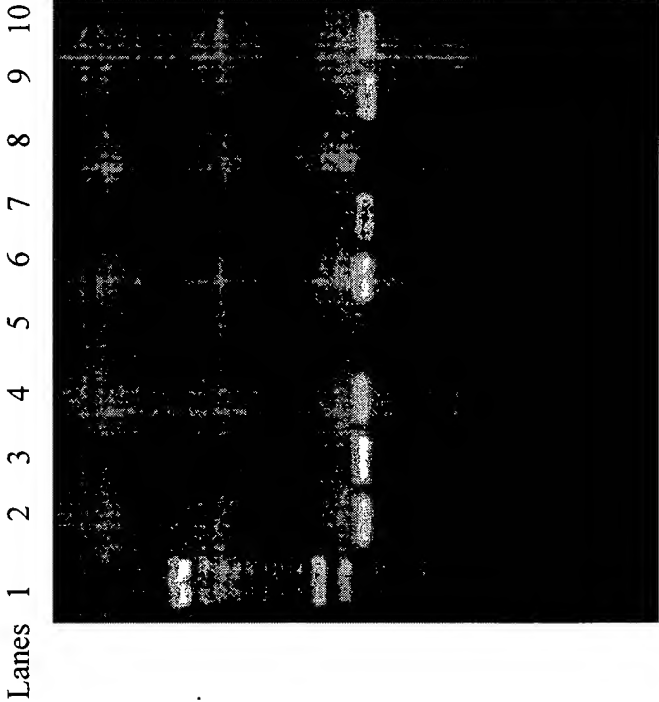


Figure 3

Selective PCR amplification of HPV DNA using PNA blocking probes

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

Title: Detection and Typing of Human
Papillomavirus Using PNA Probes
Inventor(s): Cohenford et al.
Serial No. Not Yet Assigned
Docket No. CYM-035 Atty: Joseph A. Cap
Express Mail No. EL653444078US

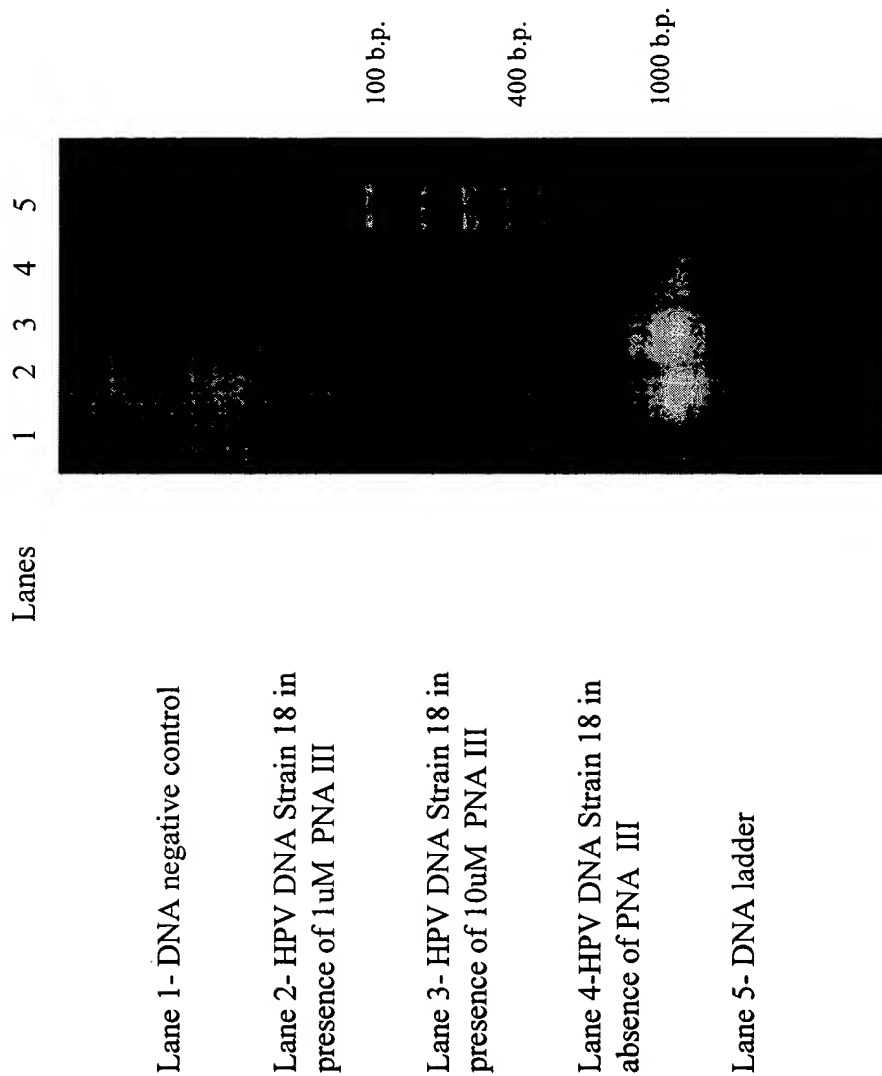


Figure 4
Effect of PNA concentration on
HPV DNA (STRAIN 18) PCR